

2074

MONTE CRISTO MINES LTD. (N.P.L.)

MAGNETOMETER SURVEY

CLAIMS SS 1-16; 21-28

CARIBOO MINING DIVISION

53° - 121° S.E.

AUG. 20 - SEPT. 21, 1969

J.A. MITCHELL, P. Eng.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2074 MAP

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MAPS

- M* G.S.C. Map 59-1959
- A* G.S.C. Map 3 - 1961
- B* G.S.C. Map 3 - 1966

*Map 2074-1 -- Magnetometer
Survey In pocket*

Monte Cristo Mines Ltd. - Suite 214 - 475 Howe Street,
Vancouver 112, B.C.

Gentlemen: This report covers results of a magneto-
meter survey performed over the Lac La Hache holdings of
Monte Cristo Mines Ltd.

PROPERTY LOCATION ACCESS

The property consists of a contiguous group of mining Claims,
SS 1-40 inclusive, Record Nos. 38000-38039, located on the
east end of Spout Lake, south central British Columbia, some
25 miles north, north-east of the townsite of Lac La Hache,
situated on Highway 97 about 350 miles north of Vancouver.

Access is by poor secondary road from Lac La Hache directly
onto the property.

PHYSIOGRAPHY-GEOLOGY

Spout Lake is 3532 feet above mean sea level. The area covered by the property is fairly flat with a gentle rise in elevation eastward.

Geological References G.S.C. Map 59-1959, G.S.C. Map 3-1961, and G.S.C. Map 3-1966, as well as field observations indicate that the entire property is underlain by an intrusive complex composed essentially of hornblende-biotite granodiorite of Upper Triassic or Lower Jurassic Age.

HISTORY

In the Fall of 1968, the present management conducted a geochemical soil sampling program for copper over the claim group on a grid of 300 feet by 100 feet. Determinations employed the Rubianic Acid process which gives a rough comparative degree of copper concentrations in the soil.

Results of the survey indicate three large areas of geochemical buildup occurring at 1) about centre location along baseline from line 57-105, Claims SS 9-14, 2) through Claims SS-26 between lines 15 to 42, and 3)

through Claim SS 3-6 from baseline to south property limits between lines 21 to 30. Except for the latter zone, trend is essentially north-west corresponding to trend of airborne isomagnetism, Map 5234G.

According to report dated December 1st, 1968, by A.R. Allen, P. Eng., copper mineralization appears on the property in sheared and altered areas in the granodiorite on SS-8 (chalcopyrite-pyrite), and SS-10 (bornite, chalcopyrite, magnetite, pyrite, and malachite).

GEOPHYSICAL SURVEY

Survey Method and Instrument Data - On a grid superimposed over the original geochemical grid directed north-south at 300 foot line spacings from essentially centrally located west-to-east base control line, magnetometer recordings were taken each 100 feet employing the enclosure method.

This procedure involves setting up a number of secondary base stations along the baseline, completing two adjacent cross-lines tying-in to the secondary base station from whence enclosure commenced. Normal diurnal compensations were made using sloping line or triangular method.

A Sharpe MF-1 Fluxgate magnetometer, Serial No. 510166, was used to measure the vertical component of the earth's magnetic field in gammas. Base stations for determining diurnal variations were established at 600 foot intervals along the base line. Approximately 1640 stations were established in the 31.3 mile survey which covered claims SS 1-16, 21-28.

The field party consisted of Messrs. B. Blemkie, K. Sutton, P. Darnell, B.A., and G. L. Kirwan, B.Sc.

GEOPHYSICAL RESULTS-INTERPRETATION

A study of magnetic results show that recordings ranged from -610 gammas to 6,680 gammas and that normal background is about 1300 gammas.

No major anomalous conditions were recorded in the survey, however a minor magnetic feature is noted that may have economic significance. This latter zone consists of a magnetic "low" occurring over the northern portion of geochemical anomaly located in Claims SS 3-6 close to the higher intensity portion of this anomaly and has a background of 462 gammas or about one-third that of normal background. This zone is 1200 feet long east-west by 600 feet north-south.

Except for a few magnetic "highs", no other significant features were recorded and the area covered is thus essentially magnetically flat depicting little of geologic structure.

GEOCHEMICAL CHECK PROGRAM

In order to ascertain significance of anomalous conditions recorded in original geochemical survey, 69 soil samples were taken from the "B" horizon using normal soil auger equipment across the highest portions of the three previously recorded geochemical anomalies on lines 27, 33, 57, 87, and 93, as well as outside these areas on line 21 to establish background.

No impervious clay horizons were noted in the area covered. Depth of samples ranged from one inch to ten inches below surface, averaging four inches.

Laboratory Procedure - All samples were dried and sifted through an 80 mesh nylon screen to eliminate possible humus contamination. Half gram samples were then analysed

by hot nitric acid extraction, and colorometric trace metal measurement techniques at the Bondar-Clegg Vancouver laboratories for copper content and results are expressed in parts per million.

Results - General base level throughout the soil in the area tested for background is 19 P.P.M. as determined from 23 samples ranging in value from 6-63 P.P.M.

A single recording of 153 P.P.M. copper or eight times background was recorded in area of geochemical anomaly with superimposed magnetic "low" in Claims SS 3-6, while three times background was recorded over anomaly in Claim SS-13, and twice background recorded over anomaly in Claims SS 9-10.

CONCLUSIONS AND RECOMMENDATIONS

A magnetic survey was recently performed over Claims SS 1-16, and SS 21-28 of the Lac La Hache holdings of Monte Cristo Mines Ltd. on a 300 by 100 foot grid. Simultaneously, a check program consisting of 69 soil

samples were taken over previously determined geochemical anomalous peaks. Although results indicate the area covered is essentially magnetically flat, a substantial magnetic "low" of one-third background was recorded close to the highest intensity portion of geochemical anomaly located in Claims SS 3-6, and a high geochemical soil sample was returned 153 P.P.M. or eight times background in copper indicating this geochemical anomaly has some significance.

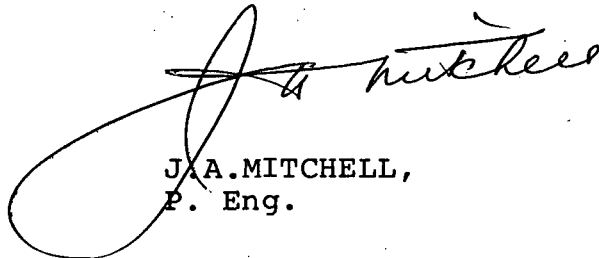
No other areas of geophysical build-up or depression were recorded.

A geochemical build-up in copper is three times background over anomaly in Claim SS-13, and twice background over anomaly in Claims SS 9-10.

In view that copper concentrations are known to exist on the subject property and in view of results of exploratory programs performed over the property to date, further work is warranted to assess copper potential of the Monte Cristo holdings.

This work should take the form of recommendations as outlined in report of A.R. Allen, P. Eng., dated December 1st, 1968.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "J.A. Mitchell". The signature is written in dark ink and is positioned above the typed name.

J.A. MITCHELL,
P. Eng.

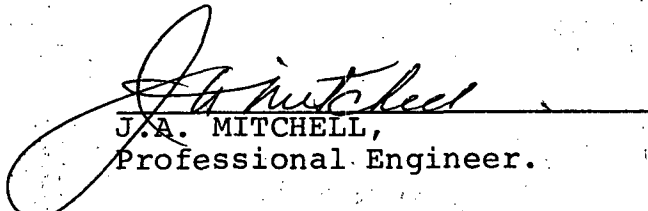
October 16, 1969

CERTIFICATION

I, J.A. Mitchell of 2991 Mathers Avenue, West Vancouver, certify that:

1. I am a graduate of the University of British Columbia in Applied Science (Mining) 1932.
2. I am a Professional Mining Engineer and have practised my profession in various capacities since graduation.
3. I am a member in good standing of the Association of Professional Engineers of British Columbia.
4. I have no interest, directly or indirectly in either the securities or the properties of Monte Cristo Mines Ltd. (N.P.L.), nor do I intend to acquire any such interest.
5. I have supervised the work programs noted in accompanying report.

Certified this 16th day of October 1969.



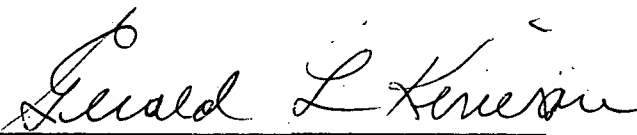
J.A. MITCHELL,
Professional Engineer.

CERTIFICATE

I, Gerald L. Kirwan of the cities of Toronto and Vancouver, certify as follows:

1. THAT I am a Geologist with offices at Ste. 205-160 Bay St., Toronto, and Ste. 214-475 Howe St., Vancouver, B.C.
2. THAT I have been graduated from Carleton University, B.Sc., 1957, and that I have practised my profession continuously.
3. THAT I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
4. THAT I have no interest direct or indirect in Monte Cristo Mines Ltd. nor do I beneficially own directly or indirectly any security of the Company or affiliate thereof.

Dated at Vancouver, British Columbia, this 16th day of October 1969.


Gerald L. Kirwan, B.Sc.

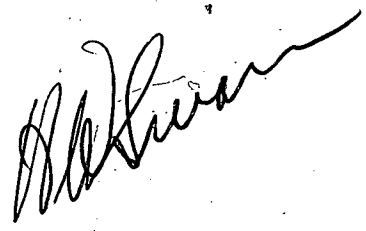
Declaration:

The following is a list of persons employed directly on the field program of Monte Christo Mines Ltd. (NPL), Lac La Hache, British Columbia, and related costs of geophysical program.

<u>Persons in Field</u>	<u>Fees paid</u>	<u>Dates worked</u>
B. Blenkie	\$600	Aug. 20-Sept. 21/69
K. Sutton	500	Aug. 20-Sept. 21/69
P. Darnell	750	Aug. 20-Sept. 21/69
G. Kirwan	1000	Aug. 20-Sept. 21/69
Food costs:	360	
Assay costs	86.25	
Map work	79.84	
Field equipment	100.00	
Xerox-Ozalid	35.00	
Typing	10.00	

352109

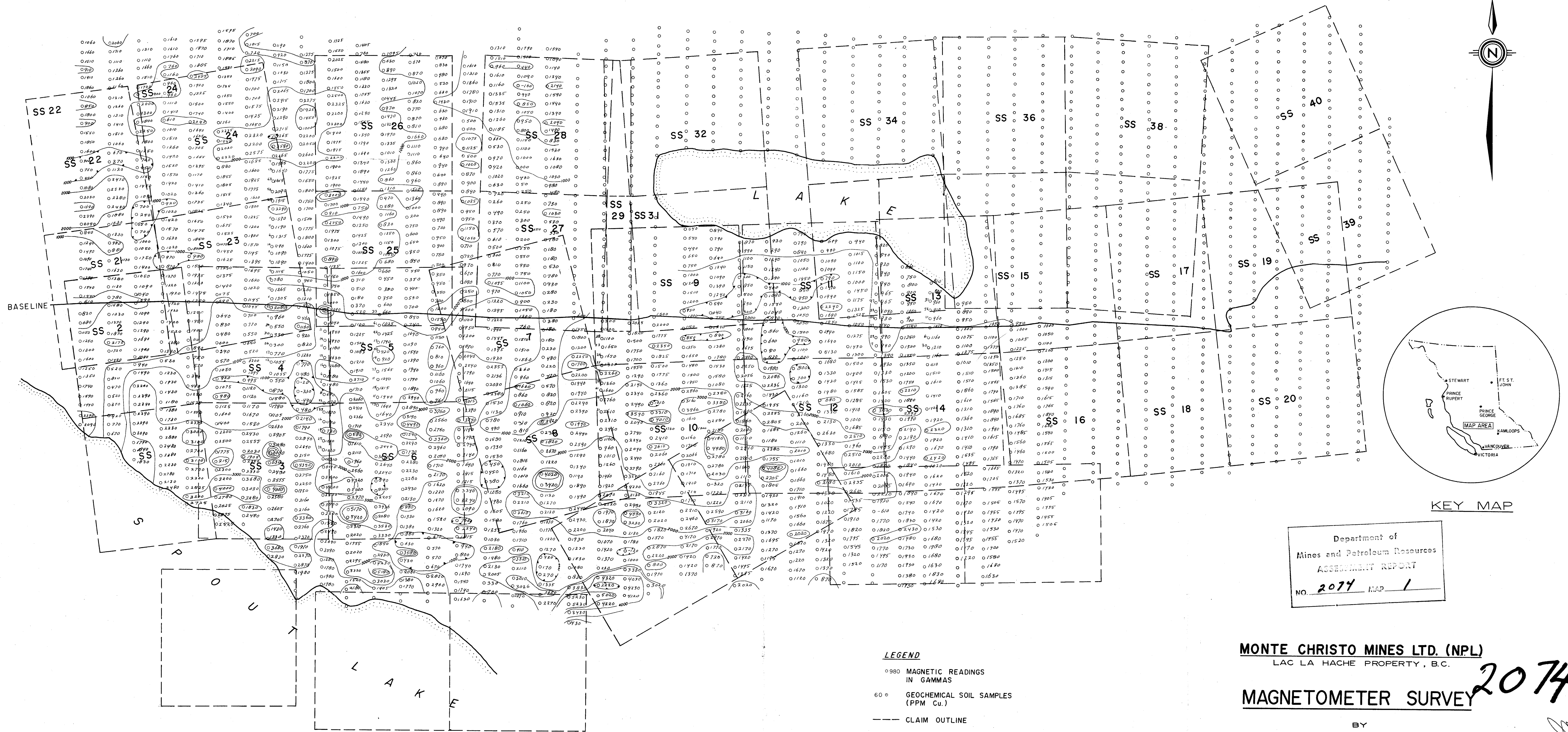
Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *23*
day of *October*, 1969, A.D.



Jul Suran

Sub-Mining Recorder

0N 3N 6N 9N 12N 15N 18N 21N 24N 27N 30N 33N 36N 39N 42N 45N 48N 51N 54N 57N 60N 63N 66N 69N 72N 75N 78N 81N 84N 87N 90N 93N 96N 99N 102N 105N 108N 111N 114N 117N 120N 123N 126N 129N 132N 135N 138N 141N 144N



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2074 MAP 1

LEGEND
 ○980 MAGNETIC READINGS
 IN GAMMAS
 ○60° GEOCHEMICAL SOIL SAMPLES
 (PPM Cu.)
 --- CLAIM OUTLINE

MONTE CHRISTO MINES LTD. (NPL)
 LAC LA HASHE PROPERTY, B.C.

MAGNETOMETER SURVEY

BY
ADVANCE GEOPHYSICS LTD.
 TORONTO - VANCOUVER



2074